POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY
EPA 8082A REVISION 1 2007

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
Was this method not used for the analyses of single component organochlorides or organophosphorous pesticides?	2.2				
Were method blanks demonstrated to be free from analytes?	4.1				
Were reagent-grade or pesticide-grade chemicals used in all tests?	7.1				
Were standard solutions stored in the dark at ≤ 6°C in PTFE sealed containers?	7.1				
Were the only solvents used in this method n-hexane and isooctane? *NOTE: Solvents used in the extraction and cleanup procedures may include n-hexane, diethyl ether, methylene chloride, acetone, ethyl acetate, and isooctane (2,2,4-trimethylpentane); the solvents must be exchanged to n-hexane or isooctane prior to analysis.*	7.2				
Were a minimum of five calibration standards used?	7.7.1				
When internal standards were used, were the internal standards added to sample and standard extracts prior to analysis?	7.9.1				
Were calibration checks measured after at least every 20 samples to within ±20% of initial calibration?	9.3.1				
Were LFMs, solvent blanks, method blanks, and other nonstandards counted into the above total of 20 samples?	9.3.1				
Were corrective actions taken when continuing calibration checks were out of acceptance ranges?	9.3.1				
Were samples reanalyzed when they had internal standard areas greater than 50% different from the average internal standard area of the calibration?	9.3.2				
Did retention time shifts greater than 30 seconds result in the laboratory repeating the affected sample?	9.3.2				
Notes/Comments					

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Were Initial Demonstrations of Proficiency done when beginning this method, when new analysts began work, or when significant changes in equipment were made?	9.4.1				
Were average recoveries and standard deviations calculated for four replicates as part of Initial Demonstrations of Capability?	9.4.3				
Were method blanks analyzed prior to the analysis of any samples?	9.5				
Were method blanks prepared and analyzed with every preparation and analysis batch?	9.5				
Were subjected to the same stages of preparation and analysis as samples?	9.5				
If reagents were changed during a preparation batch, were separate method blanks prepared for each set of reagents?	9.5				
Were a matrix spike, a duplicate, and a LCS analyzed with every analytical batch?	9.6				
Were surrogates added to every sample, standard, QC, and blank when surrogates were used?	9.6				
Were surrogate recovery control limits developed by the laboratory and used to evaluate individual surrogate recoveries?	9.7				
Were matrix spikes, duplicates, and LCS subjected to the same preparations and analysis as samples?	9.6				
Was at least one LFM/Duplicate or LFM/LFMD pair analyzed with each batch?	9.6.1				
Were the same instrument operating conditions used for the analysis of both the samples and the standards?	11.3.3.4				
Were calibrations verified at least once every 12 hour shift by analyzing a calibration verification sample to be ±20% of initial calibration?	11.6.2				
Were failed calibration verification samples re-injected only once after failures prior to instrument recalibration?	11.6.2.3				
When calibration verifications failed acceptance criteria, were all the samples following the previously acceptable calibration verification reinjected?	11.6.6				
Notes/Comments:					

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Were nondetect samples that were followed by a close-bracketed by a failed calibration verification not reinjected?	11.6.6				
When internal standards are used, samples do not have to be bracketed by calibration verifications?	11.6.8				
When two analytical columns are used by splitting a single injection, did both columns meet calibration acceptance criteria?	11.7.1				
Were GC/MS systems used for quantitative analysis calibrated?	11.11.2				

Notes/Comments: